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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,455	09/25/2003	Young-Woo Lee	P3052/NAR	4592
7	590 10/04/2004		EXAM	INER
Peter T. Kwon			SCOTT, JAMES R	
G W i P S Kangnam			ART UNIT	PAPER NUMBER
P.O. Box 2301			2832	
Seoul, 135-242 KOREA, REPUBLIC OF			DATE MAILED: 10/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/669,455	LEE, YOUNG-WOO				
Office Action Summary	Examiner	Art Unit				
·	James R. Scott	2832				
The MAILING DATE of this communication a						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perioder failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N.  1.136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day by will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	mely filed  /s will be considered timely. If the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 9/2	25/2003 AND 3/08/2004.					
·						
<del>'_</del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
•						
	Claim(s) <u>1-6</u> is/are pending in the application.					
5) Claim(s) is/are allowed.	4a) Of the above claim(s) is/are withdrawn from consideration.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	• • • • • • • • • • • • • • • • • • • •					
7) Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.					
	and dissilative and market	•				
Application Papers						
9) The specification is objected to by the Examiner.						
	10)⊠ The drawing(s) filed on <u>08 March 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (P10-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Patent Application (PTO-152)				

Application/Control Number: 10/669,455

Art Unit: 2832

#### **DETAILED ACTION**

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## **Drawings**

The drawings filed on 3/08/2004 are acceptable subject to correction of the informalities indicated on the attached "Notice of Draftsperson's Patent Drawing Review," PTO-948. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

The drawings are objected to by the Examiner because the figure 1 should be labeled as PRIOR ART. Correction is required.

#### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

## **Replacement Drawing Sheets**

Drawing changes must be made by presenting replacement figures which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments, or remarks, section of the amendment. Any replacement drawing sheet must be identified in the top margin as "Replacement Sheet" (37 CFR 1.121(d)) and include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin.

Art Unit: 2832

## **Annotated Drawing Sheets**

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheets must be clearly labeled as "Annotated Marked-up Drawings" and accompany the replacement sheets.

### **Timing of Corrections**

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

### Specification

The abstract of the disclosure is objected to because the abstract should be rewritten using a simpler sentence structure. At present it is difficult to understand what constitutes the gist of applicants invention. It is suggested that the abstract be reedited to include at least three or more sentences instead of the single sentence paragraph initially submitted. Correction is required. See MPEP § 608.01(b).

Any errors applicant may become aware of in the specification should be corrected.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 10/669,455

Art Unit: 2832

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The independent claims 1,2 and 5 do not clearly state how the interleaved or interdigitated contacts are electrically connected to one another. It is not clear if the conductive plate bridges interleaved or interdigitated contacts. At present this critical function is not clearly expressed in the claims. The present claims imply that the interleaved or interdigitated contacts contact one another and that the conductive plate has no function in the switching process. Claims 3,4 and 6 are indefinite for the same reasons as claims 1,2 and 5.

#### Cited References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Franklin teaches the use of a three terminal arrangement 4,5,6 with an interleaving contact array shorted by a spaced movable contact. Ipcinski et al disclose the use of a low force membrane switch including spaced bump areas 54,56,58. Billings et al (665) and (013), Maddrell et al (748) and (215) teach the use of using a membrane switch arrangement in audio circuitry of educational materials such as books. Kepp, Jr. et al teach the use of a membrane switch assembly including interleaved or interdigitated switch contact arrangement with spacer bumps located in an electronic book circuit arrangement. Walliker et al teach the use of a single chip micro computer (microchip) in audio circuitry for the deaf.

Art Unit: 2832

## Summary

Claims 1-6 are rejected but claims 1-6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James R. Scott whose telephone number is (571) 272-1999. The examiner can normally be reached on Monday-Friday from 1 to 5 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

JRScott: jrs 9/29/2004 James R. Scott
`Primary Examiner

GAU 2832 571-272-1999